

CLAIMS:

1. A multihop radio network system, through which a signal is transmitted from a source node to a destination node via a relay node, said multihop radio network system comprising:

5 a source node configured to modulate and transmit a signal to reach a destination node via a plurality of paths; and

 a destination node configured to receive signals transmitted through the plurality of paths by demodulating and combining them based on reliability data.

10 2. A receiver system of a multihop radio network system, through which a signal is transmitted from a source node to a destination node via a relay node, said receiver system comprising:

 a demodulator;

 a combiner configured to depacketize demodulated signals for respective paths

15 and combine them; and

 a decoder configured to decode a combined signal.

3. The receiver system according to Claim 2, wherein the combiner is configured to combine by averaging based on the number of paths.

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4. The receiver system according to Claim 2, wherein the combiner is configured to combine by multiplying by a weight based on reliability data for each of the paths.